## In the Specification:

Please replace the paragraph beginning on page 6, line 7 with the following amended paragraph:

FIG. 3 provides a functional system diagram of relevant portions of the motor control circuitry 232 of FIG. 2. FIG. 3 is also a system diagram of the preferred embodiment current control circuit 300. The current control circuit 300 includes a power supply 302 which is provided by a host computer system (not shown). The power supply 302 powers a spindle motor 304 by way of motor drivers 320. The motor drivers 320 are controlled by spindle driver control logic 322 with an associated programmable timer/counter circuit 324. The voltage across current sensing resistor 306 is measured when the calibrating switch 314 is not enabled. Calibrating switch 314 may be enabled during the power-up procedure of a drive.

Please replace the paragraph beginning at page 7, line 27 with the following amended paragraph:

The voltage comparator 318 is preferably a one-shot comparator which starts a the programmable timer/counter (not shown) circuit 324 to disable the motor drivers 320 when the voltage at the eapacitor's 312 terminals terminals of the capacitor 312 exceeds the voltage provided by the DAC 310. The motor drivers 320 are then disable disabled for a programmed amount of time before the cycle repeats. The cycle is repeated by re-engaging the motor drivers 320.

#278773

Please replace the paragraph beginning on page 9, line 1, with the following amended paragraph:

In step 510, the process disables the motor drivers 320. This is preferably done by sending a disable signal to the spindle driver control logic (not shown) 322 in the motor control circuitry 232. After step 510 is complete, the routine proceeds with timing delay 512. The routine counts the amount of time on step 512 until a preprogrammed time has passed. When the preprogrammed time has passed the process enables the motor drivers 320 in step 514. Re-enabling the motor drivers 320, step 514, may also include re-enabling voltage to the motor 304. After the drivers 320 are enabled, the process repeats back to the measure voltage step 504. In the preferred embodiment, the measure voltage step 504 also includes monitoring the motor velocity and adjusting the DAC 310 reference voltage according to a velocity dependent reference profile, such as 400.

#278773 4